CLAIMS

We claim:

1. method of augmenting the actions of cAMP in an effector system while reducing cAMP action in a nociceptive system comprising application of one or more of the various forms of NO, or CO, to a site wherein the said cAMP exists.

2. A method as claimed in claim 1 wherein alteration of the said actions of cAMP is caused by application of an agent which increases cGMP.

3. A method as claimed in claim 1 wherein alteration of the said actions of cAMP is caused by application of an agent which inhibits phosphodiesterase in smooth muscle and activates cAMP phosphodiesterase in nervous tissue.

4. In an anatomical site where nociceptive tissue is in close proximity to one or more effector systems, a method for enhancing said effector system while reducing nociception in said nociceptive tissue comprising modifying the actions of cAMP at said site by application of one or more of the various forms of NO or CO.

5. A method as claimed in claim 4 wherein said actions of cAMP are modified by application of one or more agents which increase cGMP.

6. A method as claimed in claim 4 wherein said anatomical site is the penis.

7. A method as claimed in claim 4 wherein said anatomical site is the clitoris.

8. A method for enhancing penile or clitoral erection with minimal or no pain comprising the use of at least one agent in an effective amount that can augment the effect of cAMP as well as augment the effect of cGMP.

9. A method as claimed in claim 8 wherein said one or more agents can augment the effect of cAMP in smooth muscle as well as augment the effect of cGMP in nervous tissue.

10. A method as claimed in claim 8 wherein said one or more agents augment the effect of cAMP by stimulating adenylyl cyclase as well as inhibiting PDE3 activity in smooth muscle while augmenting the effect of cGMP in nervous tissue.

11. A method as claimed in claim 10 wherein said one or more agents augment the effect of cGMP and inhibits said PDE3 by generating nitric oxide.

12. A method as claimed in claim 11 wherein said agent is selected from the group consisting of glyceryl trinitrate, isosorbide 5-mononitrate, isosorbide dinitrate, pentaerythritol tetranitrate, erythrityl tetranitrate, , sodium - nitroprusside, 3morpholinosydnonimine molsidomine, S-nitroso-N-acetylpenicillamine, S-nftrosoglutathionLi, N-hydroxy-L-arginine, S,S-dinitrosodithiol, and NO gas.

13. A method as claimed in claim 5 whereby said agent is delivered by any route that will affect penile or clitoral smooth muscle and nerves.

14. A method as claimed in claim 8 wherein two agents are used and the agent that can augment the effect of cGMP does so by generating NO or CO.

15. A method as claimed in claim 8 wherein two agents are used, one of said agents augments the effect of cAMP by stimulating adenylyl cyclase in smooth muscle and the second of said agents inhibits PDE3 in smooth muscle.

16. A method as claimed in claim 8 wherein said agent which generates NO is selected from the group consisting of glyceryl tdnitrate, isosorbide 5-mononitrate, isosorbide dinitrate, pentaerythritol tetranitrate, erythrityl tetranitrate, sodium nitroprusside, 3-morpholinosydnonimine molsidomine, S-nitroso-Nacetylpenicillamine, S-nitrosoglutathione, N-hydroxy-L-arginine, S,S-dinitrosodithiol and NO gas.

17. A method as claimed in claim 8 wherein the agent that augments or potentiates the effect of cAMP is selected from the group consisting of PGE1, VIP, forstolin, acetylcholine, and calcitonin related peptide.

18. A method as claimed in claim 8 whereby said agents are delivered by any route that will affect penile or clitoral smooth muscle and nerves.

19. In an anatomical site where nociceptive tissue is in close proximity to one or more effector systems, a method for enhancing said effector system while reducing nociception in said nociceptive tissue comprising application of an agent or agents that potentiate or augment the action of cAMP in said effector systems and in said nociceptive tissue causes an increase of cGMP relative to cAMP.